1986 Toyota 22RTE/RE EFI Wiring Diagram
### Wire Colors:

- **B** = Black
- **BR** = Brown
- **G** = Green
- **GR** = Gray
- **L** = Light Blue
- **LG** = Light Green
- **O** = Orange
- **P** = Pink
- **R** = Red
- **V** = Violet
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- **Y** = Yellow

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**EFI SYSTEM**

| RESISTOR | 2Ω EACH |
| INJECTOR | 2-1: 1.5-3.0Ω |
| NEUTRAL START S/W (A/T) | 2-3: CLOSED WITH A/T SHIFT LEVER IN P OR N POSITION |
| EFI MAIN RELAY NO. 1 | CLOSED WITH IGNITION S/W AT I/G OR N Position |
| CIRCUIT OPENING RELAY | 2-1: CLOSED WITH STARTER RUNNING OR MEASURING PLATE (AIR FLOW METER) OPEN |
| AIR VALVE | 2-1: 140-60Ω |
| AIR FLOW METER | 2-1: OPEN WITH MEASURING PLATE CLOSED |
| 6-3: 20-400Ω (MEASURING PLATE FULLY OPEN) | 20-1000Ω (MEASURING PLATE FULLY OPEN) |
| 5-3: 100-300Ω | 4-3: 200-400Ω |
| 7-3: 10-20Ω (I-20°C, -4°F) | 4-7Ω (I-20°C, 32°F) |
| 2-3: 2Ω (20°C, 60°F) | 0.9-1.3Ω (40°C, 104°F) |
| 0.4-0.7Ω (80°C, 140°F) | |
| THROTTLE POSITION SENSOR | 2-4: 0.2-0.8KΩ WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.015 (IN) |
| 3-4: LESS THAN 2.3KΩ WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.35MM (0.0138 IN) |
| 2-4: 3.3-10KΩ WITH THROTTLE VALVE FULLY OPEN |
| 1-4: 3.7KΩ | |

**EFI ECU (ELECTRONIC CONTROLLED UNIT)**

- **VOLTAGE AT ECU WIRING CONNECTORS**
  - 8-3: 7V; 10-14V (IGNITION S/W ON)
  - 2-3: 7V; 10-14V
  - 4-6: 14V; 4-10V (IGNITION S/W ON, THROTTLE VALVE CLOSED)
  - 11-12: 14V; 0.1-1.0V (IGNITION S/W ON, THROTTLE VALVE FULLY CLOSED)
  - 4-5: 5V (IGNITION S/W ON, THROTTLE VALVE FULLY OPEN)
  - 12-13: 14V; 4-8V (IGNITION S/W ON)
  - 8-3: 7V; 0.7-1.0V (IDLING)
  - 7-3: 7V; 8-12V (IGNITION S/W ST)
  - 4-3: 7V; 9-14V (IGNITION S/W ON)
  - 8-3: 7V; 0-14V (NO TROUBLE AND ENGINE RUNNING)
  - 5-3: 14V; 4-8V (IGNITION S/W ON)
  - 4-3: 5-2.5V (IGNITION S/W ON, MEASURING PLATE FULLY CLOSED)
  - 4-3: 5-8V (IGNITION S/W ON, MEASURING PLATE FULLY OPEN)
  - 4-3: 2.5-7.5V (IDLING)
  - 3-4: 2-6V (IGNITION S/W ON, INTAKE AIR TEMP. 20°C, 68°F)
  - 10-11: 0.5-2.5V (IGNITION S/W ON, COOLANT TEMP. 80°C, 176°F)
  - 9-4: 8-14V (STOP LIGHT S/W ON)

**RESISTANCE AT ECU WIRING CONNECTORS**

- (DISCONNECT WIRING CONNECTOR)
  - 4-6: 1Ω (THROTTLE VALVE FULLY OPEN)
  - 0-100Ω (THROTTLE VALVE FULLY CLOSED)
  - 11-12: 5.3-10KΩ (THROTTLE VALVE FULLY OPEN)
  - 0.2-0.8KΩ (THROTTLE VALVE FULLY CLOSED)
  - 12-13: 5-7KΩ
  - 3-4: 2-5KΩ (INTAKE AIR TEMP. 20°C, 68°F)
  - 10-11: 0.2-0.4KΩ (COOLANT TEMP. 80°C, 176°F)
  - 8-3: 1Ω; 0.2-0.4KΩ
  - 5-3: 1Ω; 0.1-0.3KΩ
  - 4-3: 0.22-0.20KΩ (MEASURING PLATE FULLY CLOSED)
  - 0.22-1.00KΩ (MEASURING PLATE FULLY OPEN)
  - 1-3: 7V; 140-180Ω
  - 14-11: 5V; 45°C (113°F)
  - 14-11: CONTINUITY BELOW 45°C (113°F)
  - NO CONTINUITY ABOVE 50°C (122°F)

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